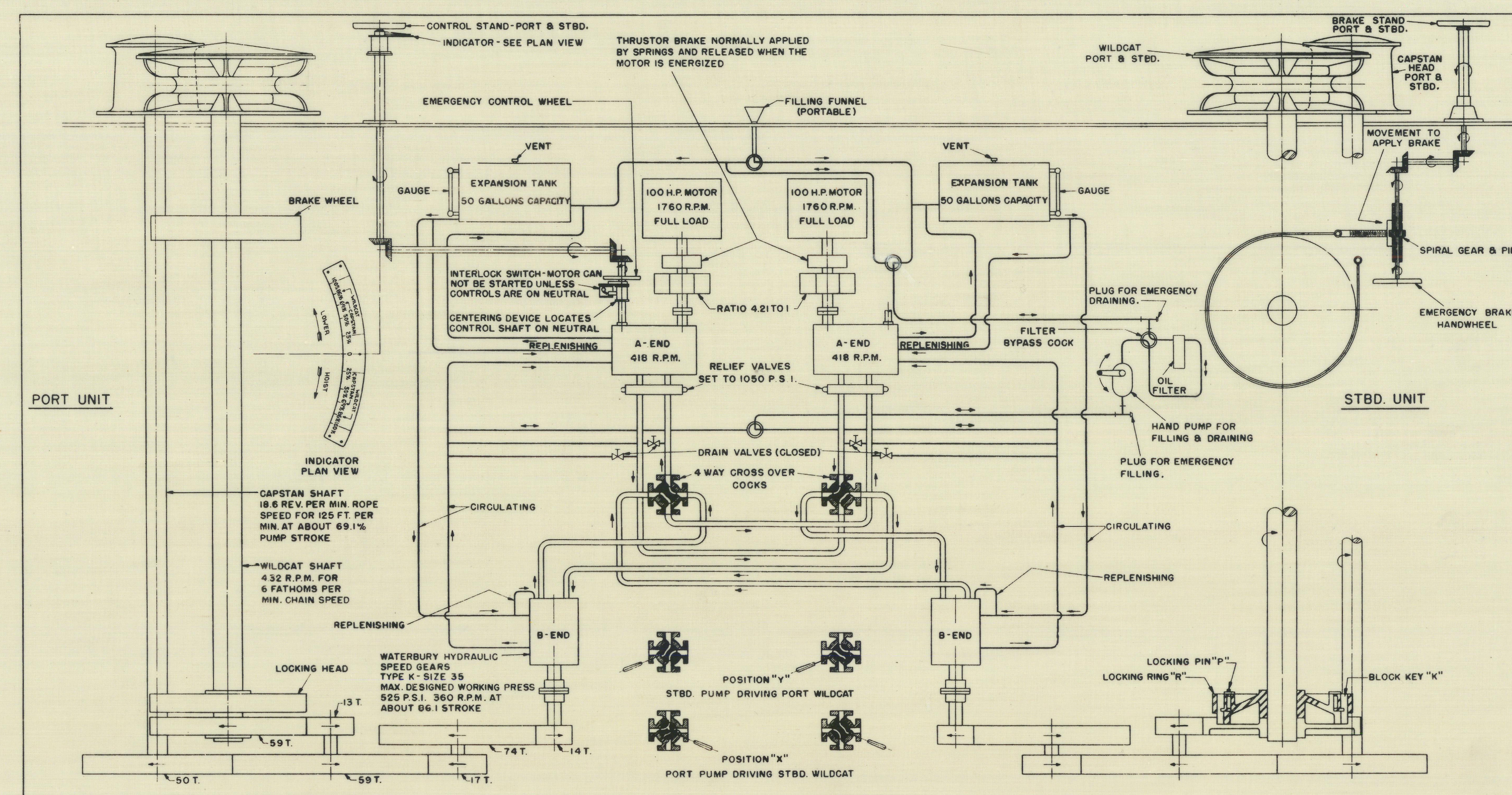




OPERATION DIAGRAM
FOR WINDLASS

PLATE 6



- NOTES ON OPERATION**
1. TO OPERATE WINDLASS FOR HANDLING THE ANCHOR, PLACE CONTROLS ON NEUTRAL AND START ELECTRIC MOTOR. SLOWLY ROTATE THE MAIN GEAR UNTIL THE INDICATING NOTCHES SHOW THE BLOCK KEYS "X" IN THE LOCKING HEAD TO BE REGISTERED WITH THE NOTCHES IN THE GEAR WHEEL. WITHDRAW LOCKING PIN "P" AND ROTATE LOCKING RING "R" TO ENGAGE BLOCK KEYS "X" AND THEN REPLACE LOCKING PIN "P". RELEASE THE WINDLASS HAND BRAKE AND THE WINDLASS IS READY TO OPERATE FOR EITHER RAISING OR LOWERING THE ANCHOR.
 2. IT IS IMPORTANT THAT THE LOCKING PIN "P" BE POSITIVELY SEATED IN THE PROPER HOLE IN THE LOCKING RING IN ORDER TO INSURE THE DESIRED POSITION OF THE BLOCK KEYS.
 3. THE ARROWS SHOW DIRECTION OF ROTATION AND OIL FLOW FOR HOISTING ANCHOR. THE PORT HYDRAULIC UNIT IS SHOWN HOISTING THE PORT ANCHOR AND THE STBD. HYDRAULIC UNIT IS SHOWN HOISTING THE STBD. ANCHOR. IF SO DESIRED THE PORT UNIT CAN BE CONNECTED TO DRIVE THE STBD. WINDLASS BY SETTING THE 4-WAY CROSS OVER COCKS TO POSITION "X" IN WHICH CONDITION THE PORT S-END IS HYDRAULICALLY LOCKED AGAINST ROTATION. THE OPPOSITE EFFECT IS ATTAINED IN POSITION "Y".
 4. WITH THE WINDLASS DISENGAGED FROM THE MAIN GEAR WHEEL AND SECURED BY ITS BRAKE, THE CAPSTAN WHICH IS CONNECTED AT ALL TIMES) MAY BE USED INDEPENDENTLY FOR ROPE HANDLING. UNDER THESE CONDITIONS, THE ANCHOR MAY BE DROPPED QUICKLY BY RELEASING THE BRAKE.
 5. MAXIMUM CAPACITY (DESIGNED)
AT THE WINDLASS - 48,000⁰⁰ PULL AT 35 FT. PER MINUTE (SLIP FRICITION AT HAWSE PIPE)
AT THE CAPSTAN - 10,000⁰⁰ PULL AT 35 FT. PER MINUTE

CL107
CL106
OPERATION DIAGRAM
FOR WINDLASS
BU SHIPS NO. CL106-SO107-583744
BU SHIPS NO. CL107-SO107-583745

CONFIDENTIAL PLATE 6

CONFIDENTIAL

CL107
CL106

NEW YORK SHIPBUILDING CORP.
CAMDEN, NEW JERSEY, U.S.A.
ENGINEERING DEPARTMENT

DR. No.

SCALE DRAWN BY D.T. DATE 5-20-43

TRACED BY CHECKED BY JTM CHIEF DR

APPROVED CHIEF ENGINEER

C. H. WHEELER MFG. CO.
PHILADELPHIA, PA.

DR. No. 60665 ALT

CL 103 TO 118 CL 103 TO 118

FORWARDED TO BUREAU APPROVED 5-21-44 DATE

LETTER NO. 60665 SUPERVISOR OF SHIPBUILDING, U.S.N.

SUPERVISOR OF SHIPBUILDING, U.S.N. REF. SUP. SHIP LET.

PLAN

EXAMINED AND FOUND CORRECT

DATE SUPERVISOR OF SHIPBUILDING, U.S.N.

GENERAL INFORMATION BOOK

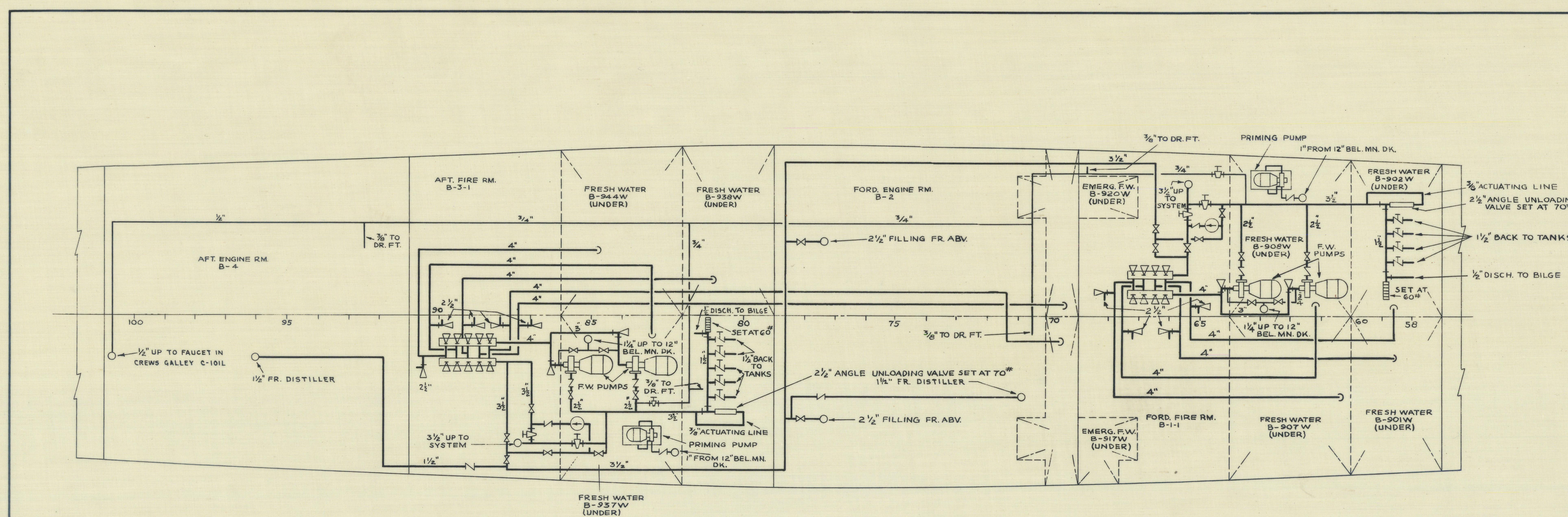
PLATE 6

OPERATION DIAGRAM
FOR WINDLASS

CL106-SO107-583744 SHEET 7 OF 21 SHEETS

COLD FRESH WATER SYSTEM

PLATE 12



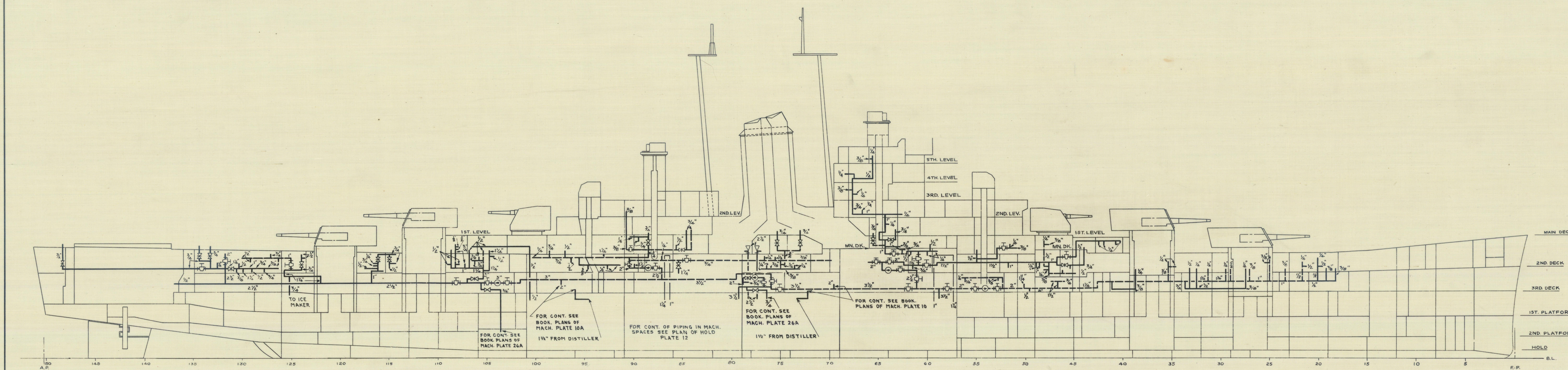
- SYMBOLS
- GATE VALVE
 - GLOBE STOP VALVE
 - GLOBE SWING CHECK VALVE
 - GLOBE STOP CHECK VALVE
 - ANGLE HOSE VALVE
 - ANGLE STOP VALVE
 - RELIEF VALVE
 - TRANSFER VALVE MANIFOLD
 - 100% SIDE ST. OR VALVES
 - DISCH. SIDE STOP VALVES
 - METER (ARROW INDICATES DIRECTION OF FLOW)
 - GLOBE STOP VALVE (LOCKED)

COLD FRESH WATER SYSTEM
BU SHIPS NO. CLIO6-SO107-583744
BU SHIPS NO. CLIO6-SO107-583745

CONFIDENTIAL PLATE 12

COLD FRESH WATER SYSTEM

PLATE 13



- SYMBOLS
- GATE VALVE
 - GLOBE STOP VALVE
 - GLOBE SWING CHECK VALVE
 - ANGLE HOSE VALVE
 - METER (ARROW INDICATES DIRECTION OF FLOW)
 - GLOBE STOP VALVE (LOCKED)

COLD FRESH WATER SYSTEM
BU SHIPS NO. CLIO6-SO107-583744
BU SHIPS NO. CLIO6-SO107-583745

CONFIDENTIAL PLATE 13

CONFIDENTIAL

CLIO6
CLIO6

NEW YORK SHIPBUILDING CORP.
CAMDEN, NEW JERSEY, U.S.A.
ENGINEERING DEPARTMENT
DR. NO. 454-484-200

SCALE DRAWN BY NGM DATE APR 15 1946
TRACED BY NGM CHECKED BY AGC CHIEF DR. W. H. LAW
APPROVED APPROVED CHIEF ENGINEER
CLIO6 CLASS CLIO6 CLASS
FORWARDED TO BUREAU APPROVED 4/20/46 DATE
LETTER NO. FOR SUPERVISOR OF SHIPBUILDING U.S.N.
SUPERVISOR OF SHIPBUILDING U.S.N. REF. SUP. SHIP LET.

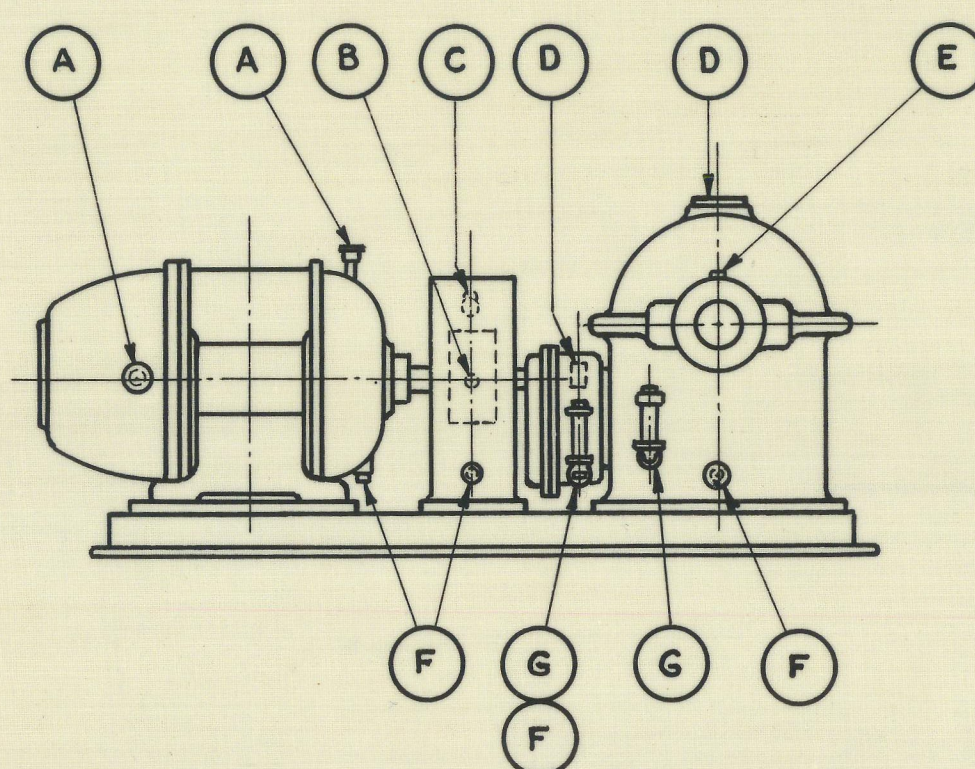
PLAN
EXAMINED AND FOUND CORRECT
DATE SUPERVISOR OF SHIPBUILDING U.S.N.

GENERAL INFORMATION BOOK
PLATES 12 & 13
COLD FRESH WATER SYSTEM

BUREAU OF SHIPS PLAN NUMBER
CLIO6-SO107-583744 SHEET 12 OF 21 SHEETS

PLATE 29

LUBRICATION CHART FOR DECK WINCH



- NOTES:
1. FREQUENCY OF APPLICATION OF LUBRICANT SHOULD BE GOVERNED BY THE OPERATING HOURS OF THE WINCH AND BY THE AMBIENT TEMPERATURE
 2. G.E. 1493 OIL RECOMMENDED BY G.E.CO.

LETTER	TYPE OF FIT'G	LUBRICANT	NAVY DEPARTMENT SPEC. OR SYMBOL	REMARKS
A	GREASE CUP	GREASE	14L3, GRADE B	
B	PRESSURE	LUBRICANT	14L3, GRADE B	
C	PLUG	OIL	14-0-12	FILL NOTE 2
D	COVER	OIL	6135	FILL
E	PRESSURE	GREASE	14G1, GRADE II	
F	PIPE PLUG			DRAIN
G	OIL GAUGE			

~~CL107~~
CL106
LUBRICATION CHART
FOR DECK WINCH

BU SHIPS NO. CL106-SO107-583744
~~BU SHIPS NO. CL107-SO107-583745~~

CONFIDENTIAL PLATE 29

CONFIDENTIAL

~~CL107~~
CL106

NEW YORK SHIPBUILDING CORP.
CAMDEN, NEW JERSEY, U. S. A.
HULL DEPARTMENT

SCALE _____ DRAWN BY C.N.B. DATE 7-FEB-44
TRACED BY _____ CHECKED BY S.H.S. CH. DRFT. *McCarthy*
DR. No. 454-200-N
APPROVED: *[Signature]* NAVAL ARCHITECT

FORWARDED TO BUREAU _____ APPROVED 2-11-44 DATE
LET. No. _____ *C.M. [Signature]*
SUPERVISOR OF SHIPBUILDING U.S.N. SUPERVISOR OF SHIPBUILDING U.S.N.

GENERAL INFORMATION BOOK
PLATE 29
LUBRICATION CHART
FOR DECK WINCH

TAKEN FROM BAYARD PLAN 7800-3 BU. SHIPS NO 560553

PLAN
EXAMINED AND FOUND CORRECT
DATE _____ SUPERVISOR OF SHIPBUILDING, U.S.N.

BUREAU OF SHIPS PLAN NUMBER

CL106-SO107-583744 SHEET 17 OF 21 SHEETS